

FIG. 1

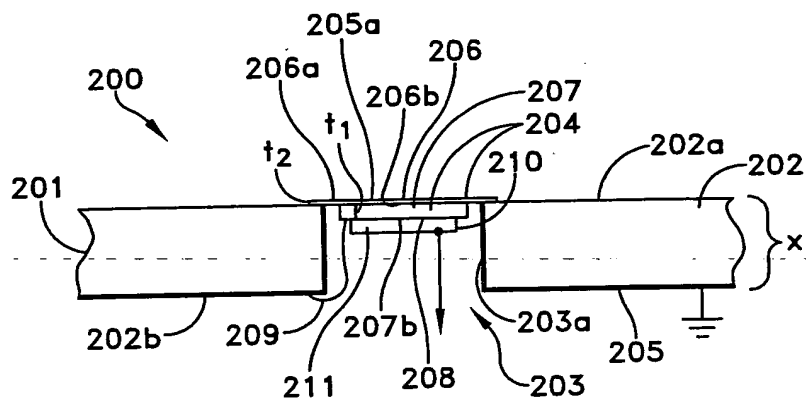


FIG. 2

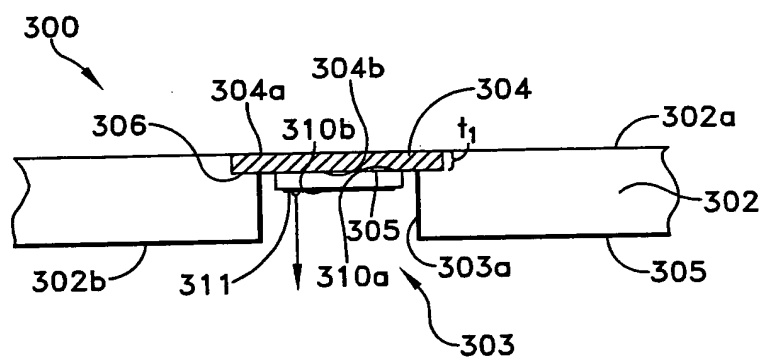


FIG. 3

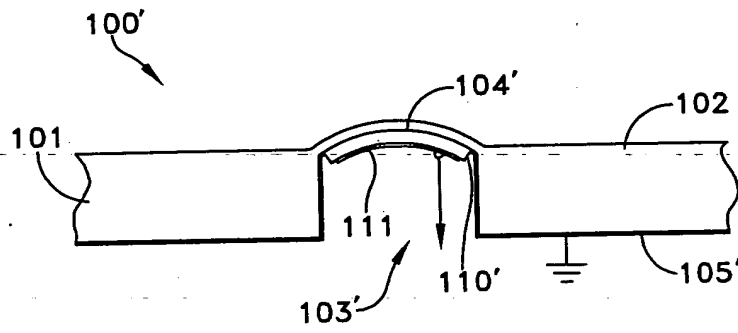


FIG. 4

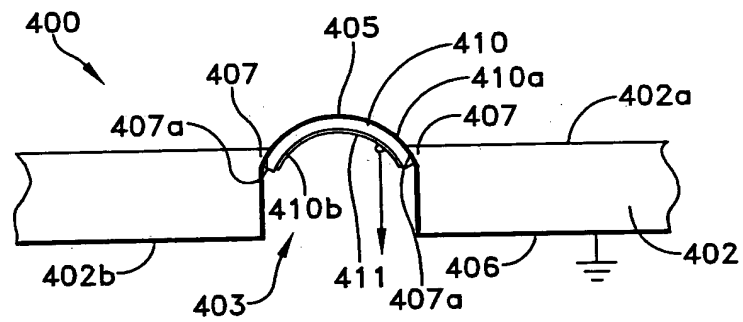


FIG. 5

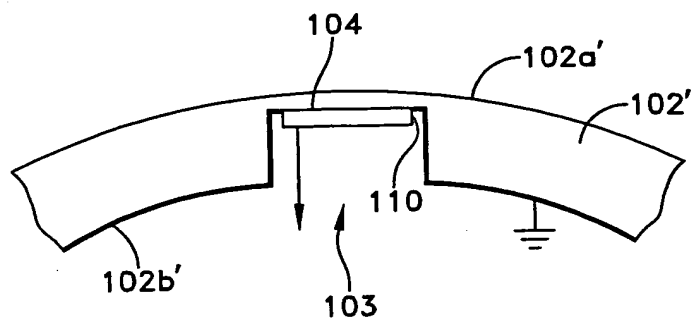


FIG. 6A

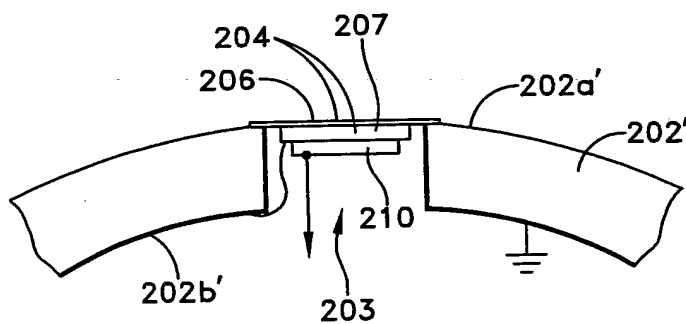


FIG. 6B

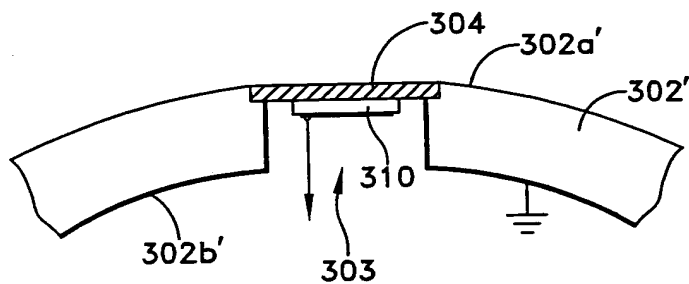


FIG. 6C

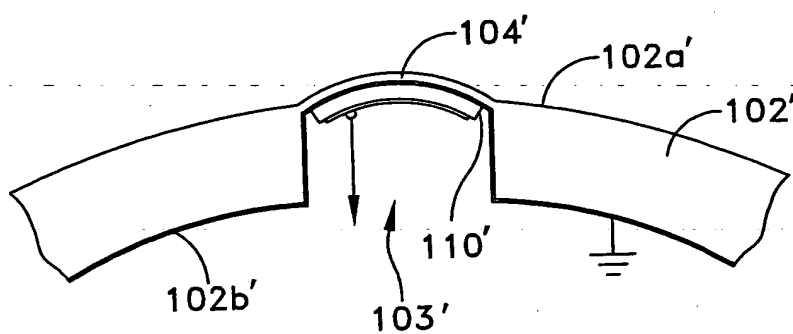


FIG. 6E

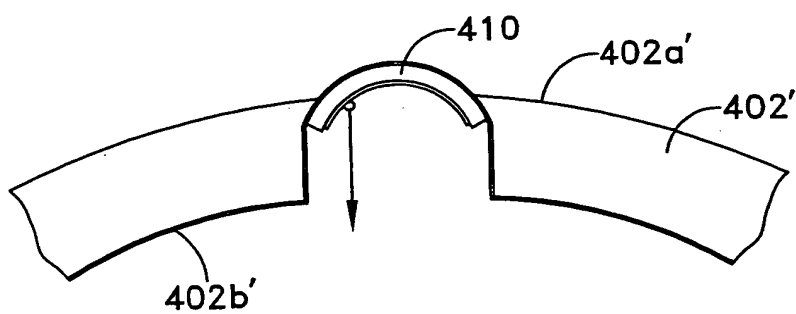


FIG. 6D

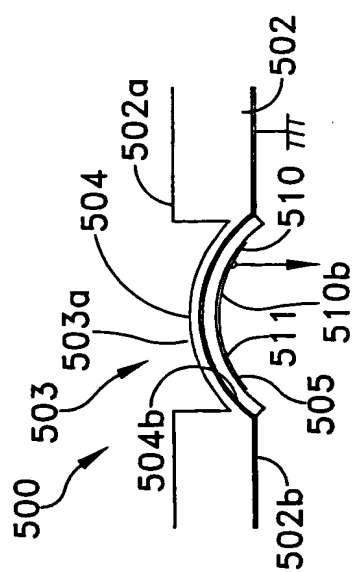


FIG. 7A

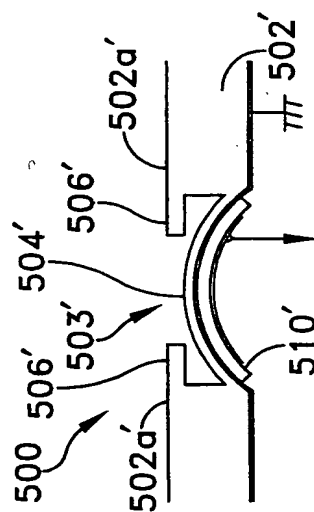


FIG. 7B

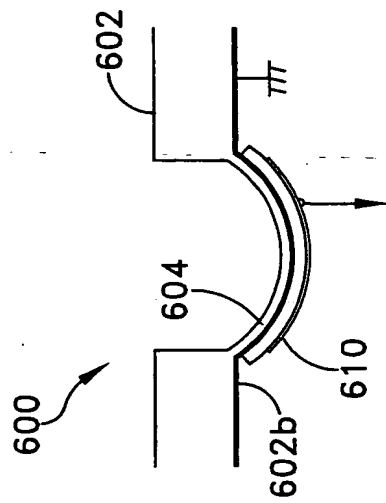


FIG. 8A

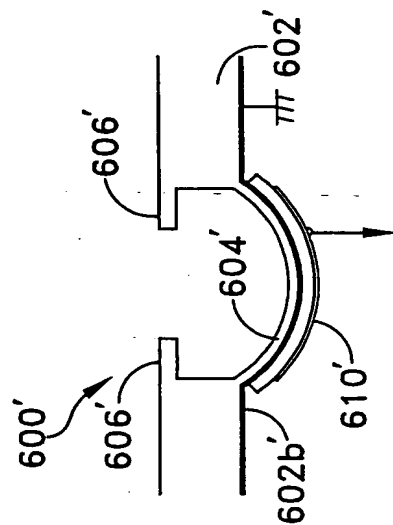


FIG. 8B

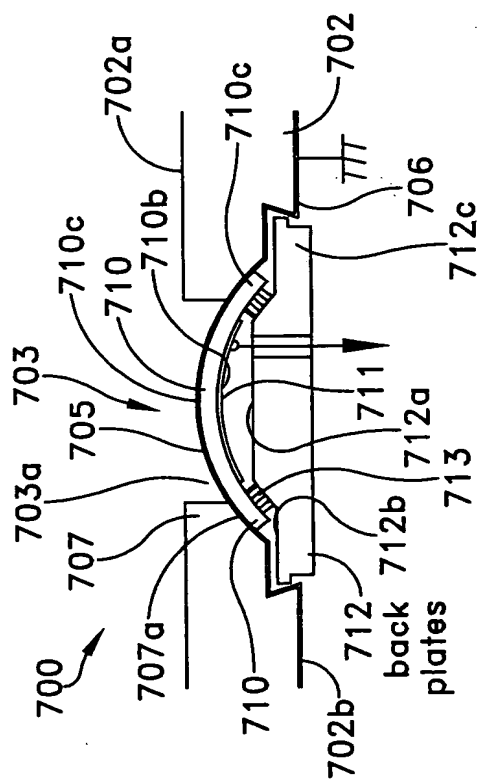


FIG. 9A

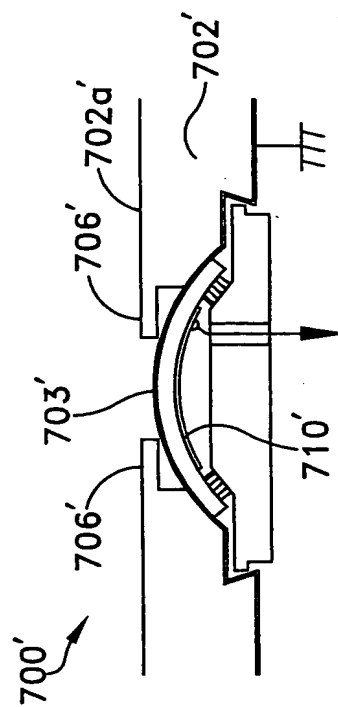


FIG. 9B

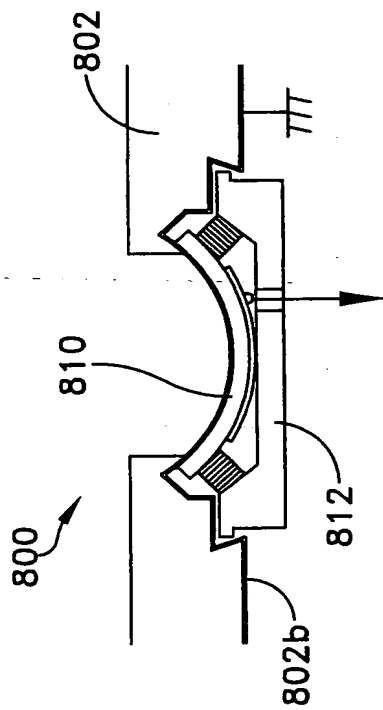


FIG. 10A

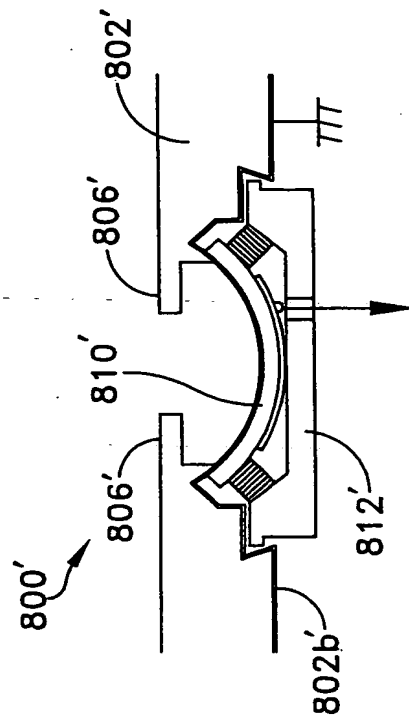


FIG. 10B

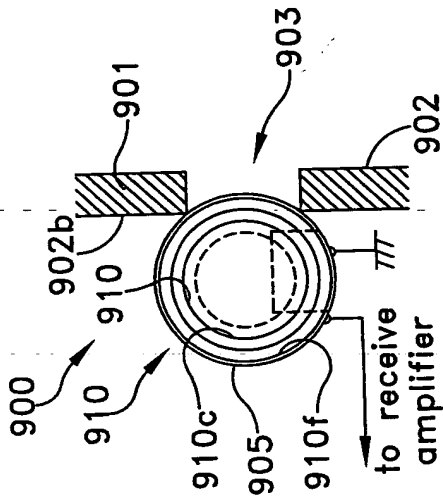


FIG. 13

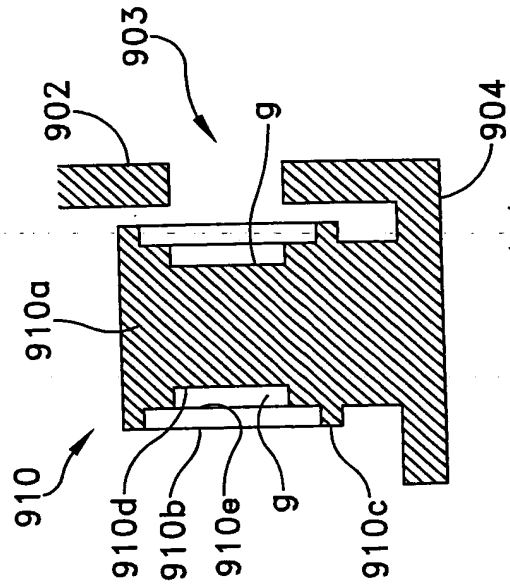


FIG. 14

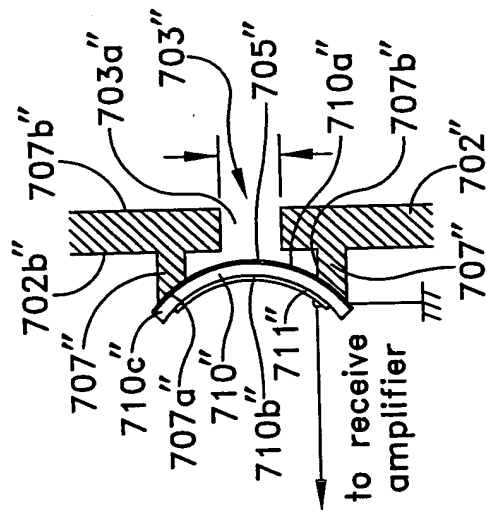


FIG. 12

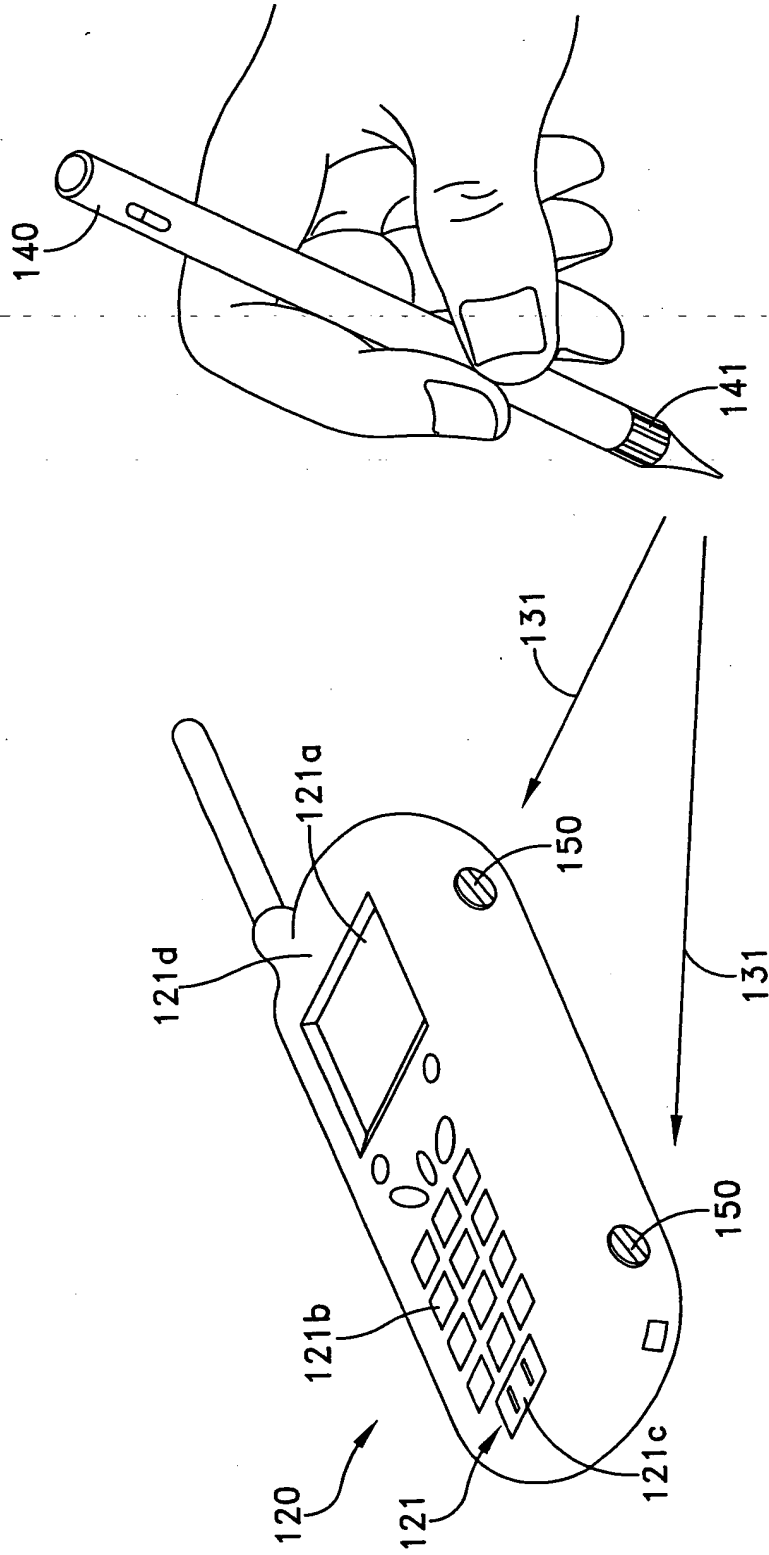


FIG. 15

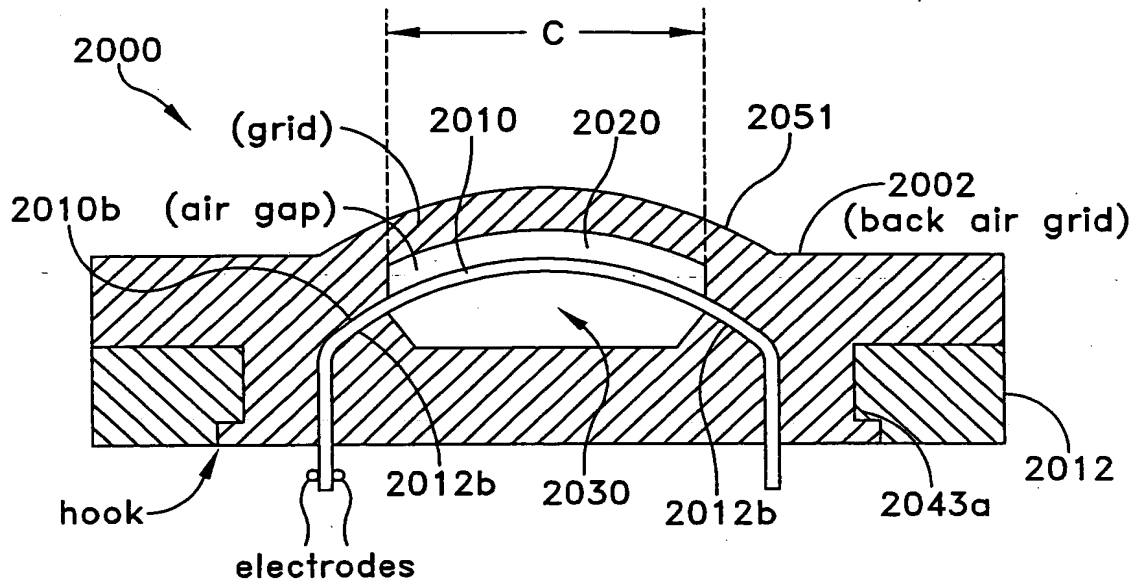


FIG. 16

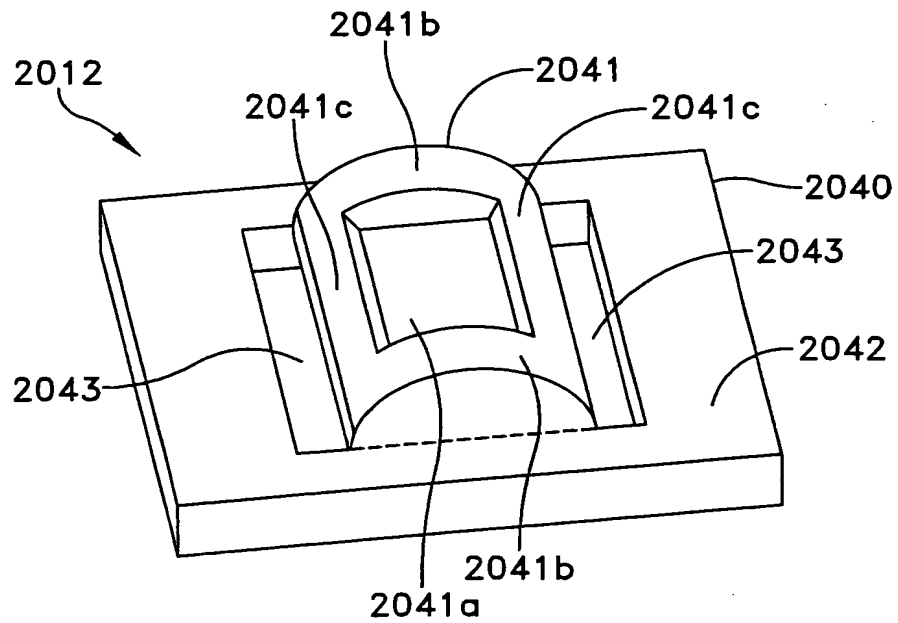


FIG. 17

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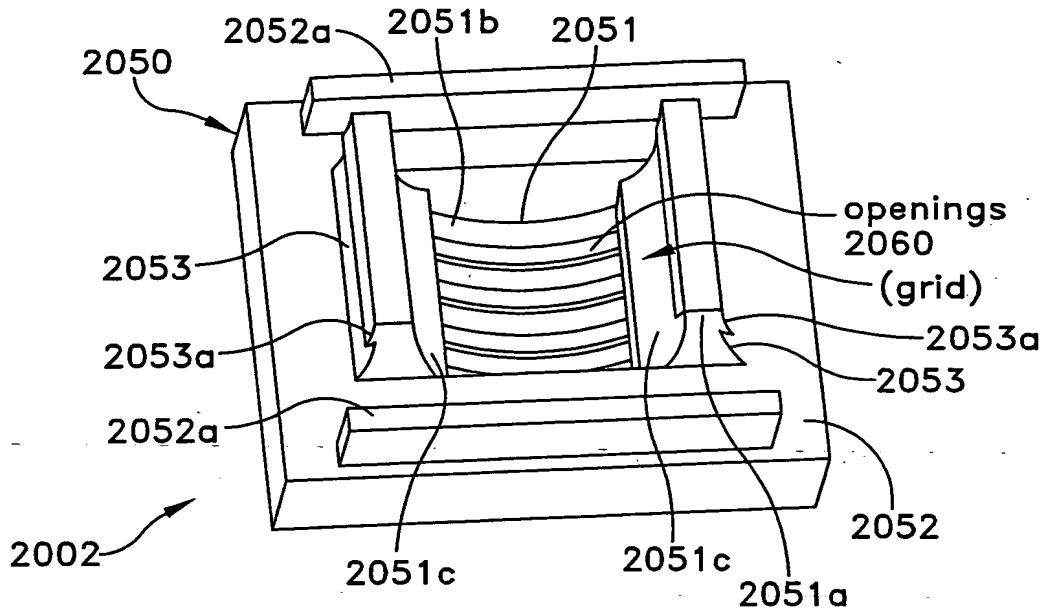


FIG. 18

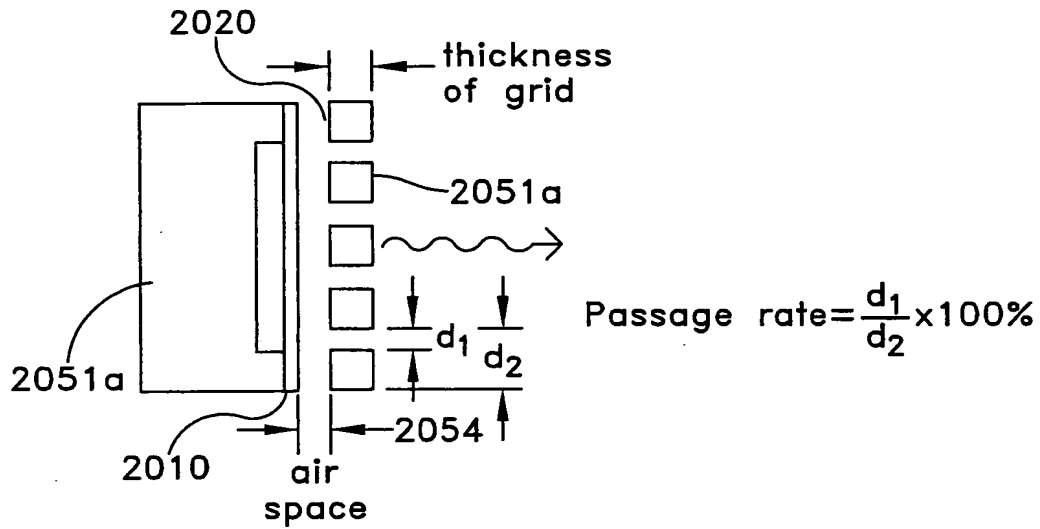
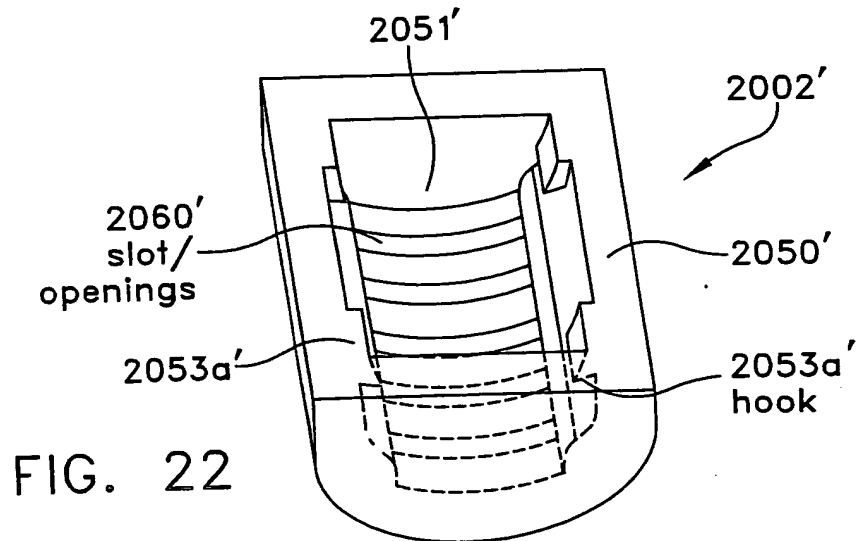
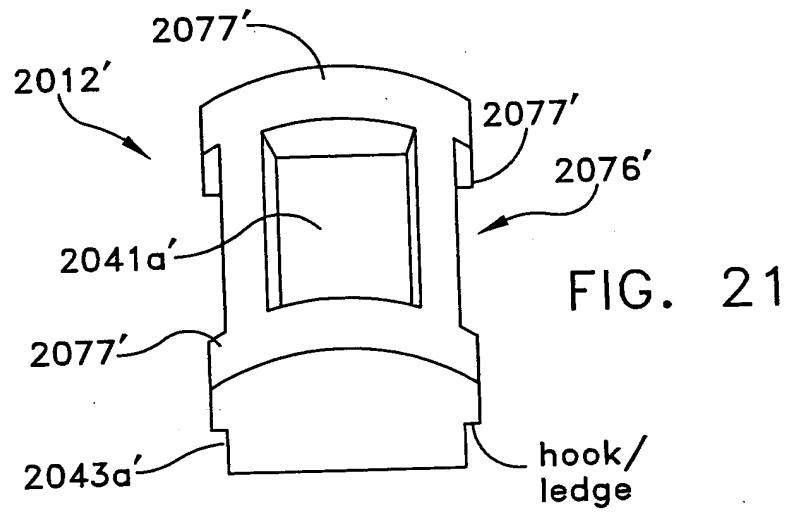
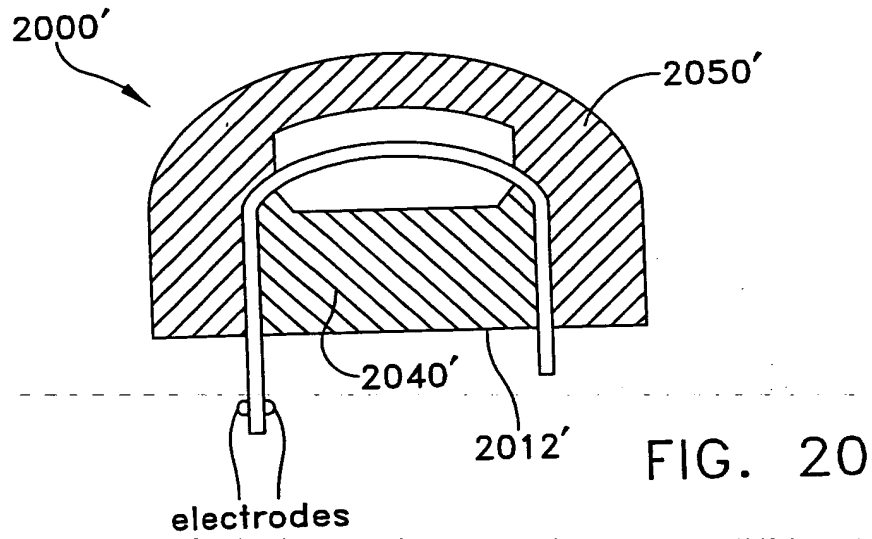


FIG. 19

30% Passage			40% Passage			60% Passage		
Air space	Wall Thick	Improvement	Air space	Wall Thick	Improvement	Air space	Wall Thick	Improvement
0.08mm	0.5mm	82%	0.08mm	0.5mm	50%	0.1mm	0.5mm	38%
0.05	1.0	55	0.08	1.0	35	0.1	1.0	22
0.08	1.5	32	0.1	1.5	19	0.1	1.5	8

FIG. 23



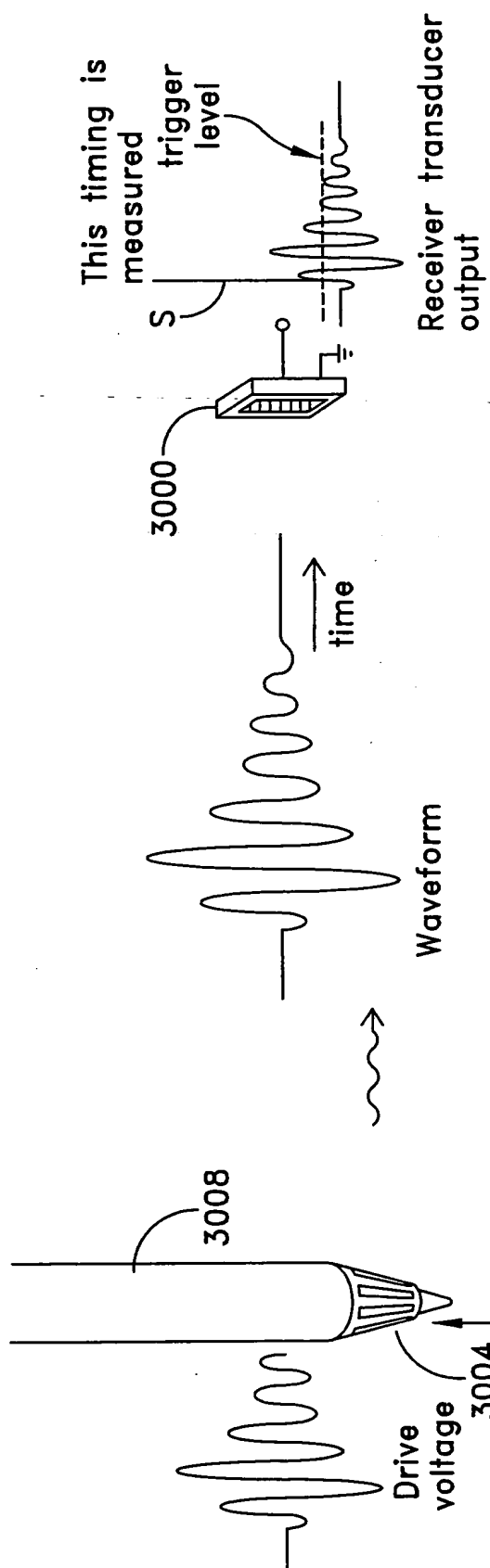


FIG. 24

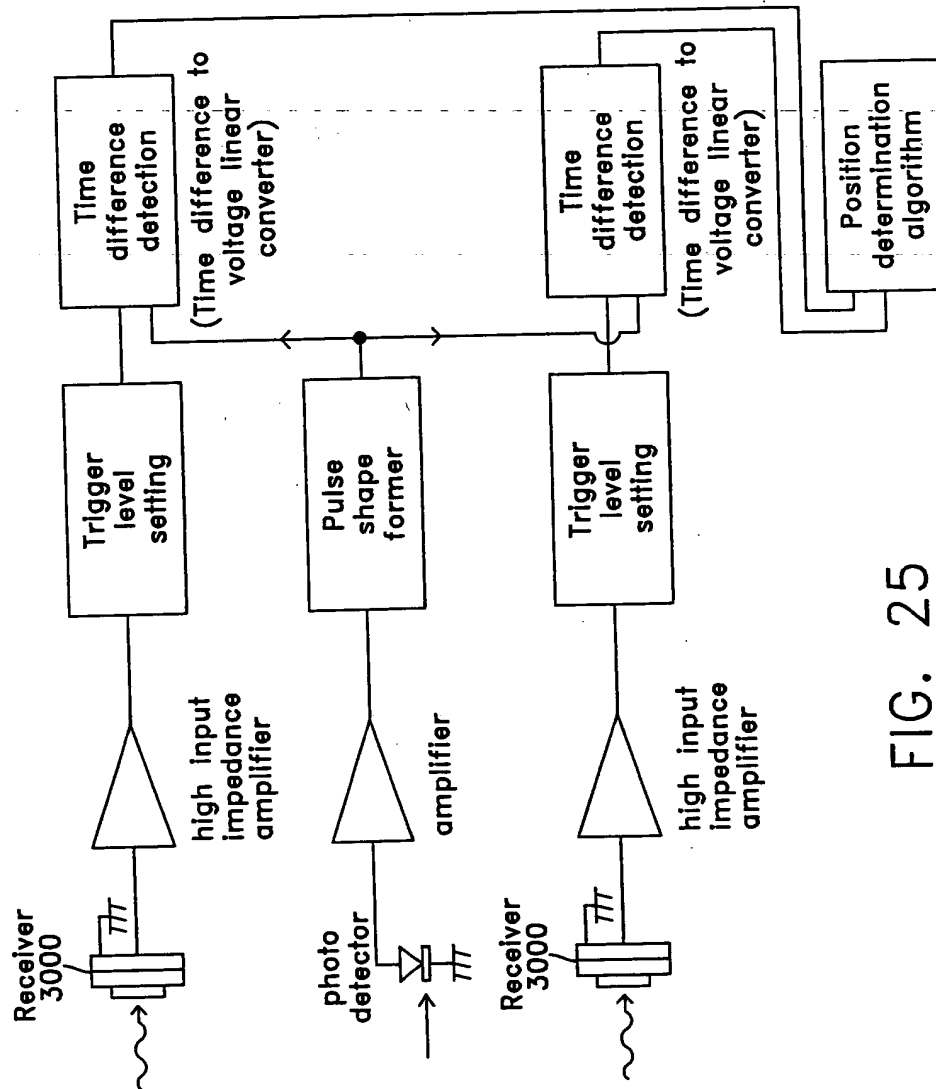


FIG. 25

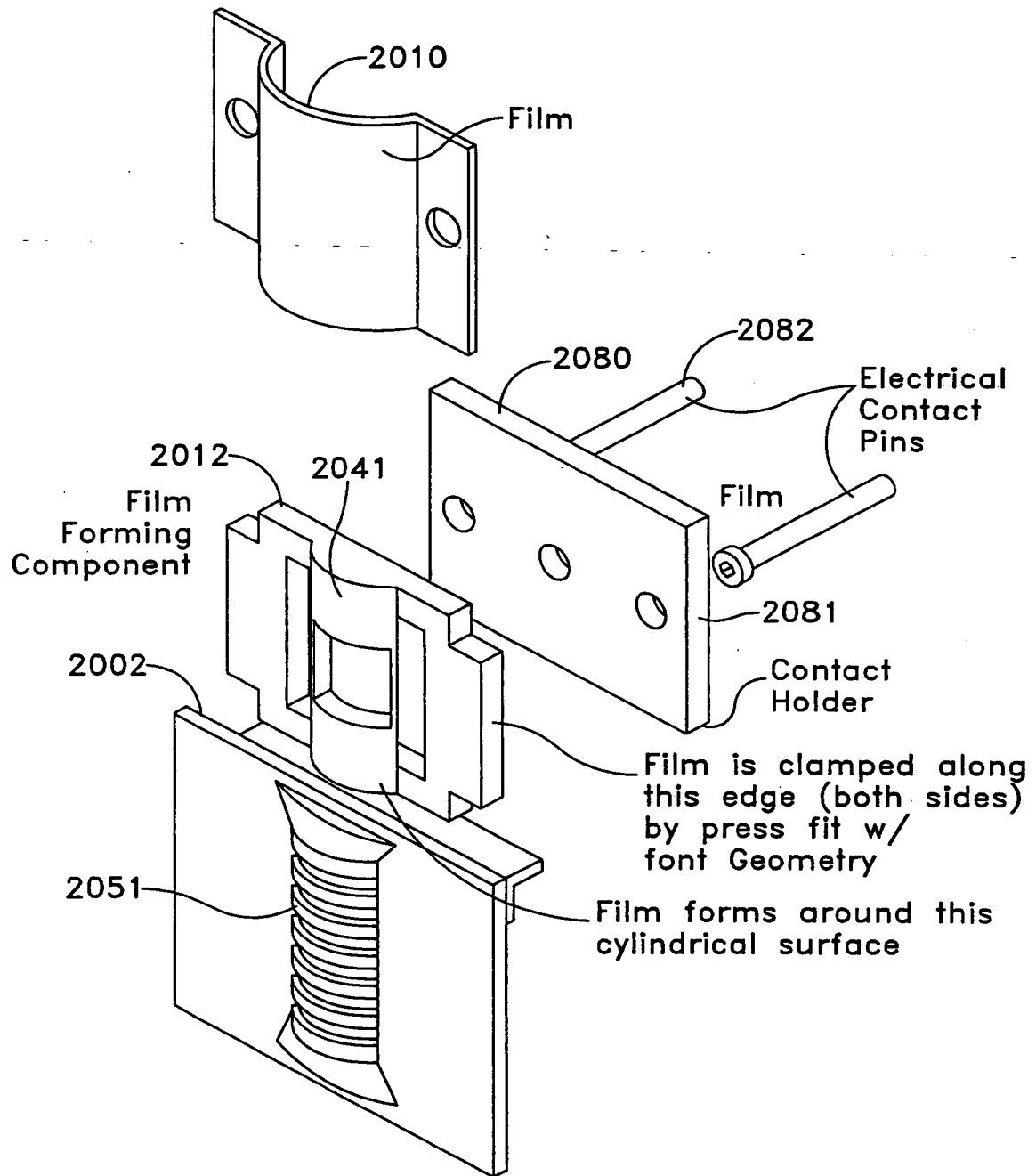


FIG. 26

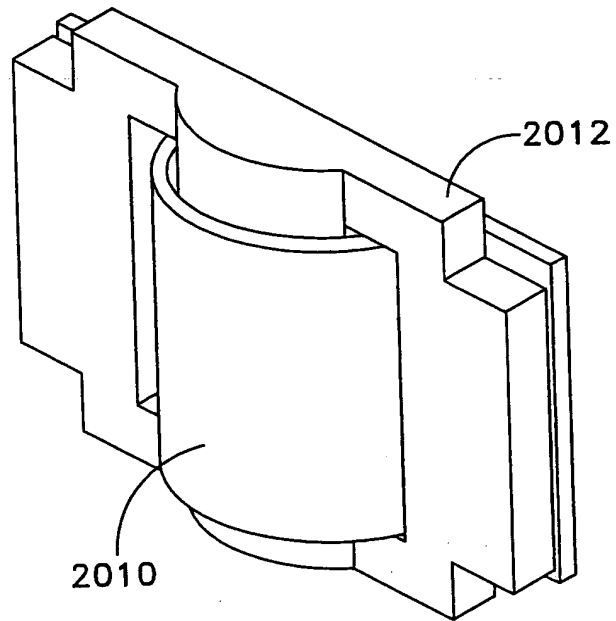


FIG. 27

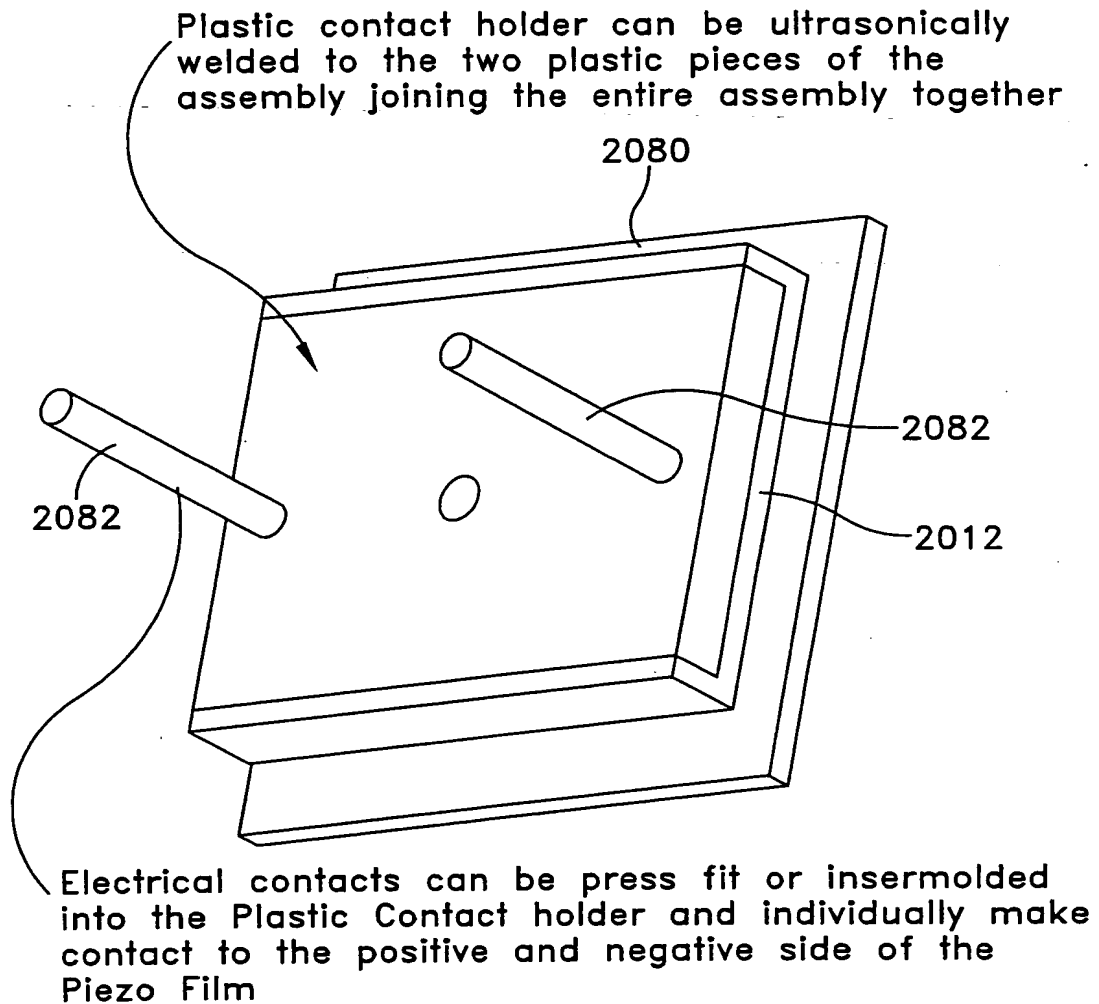
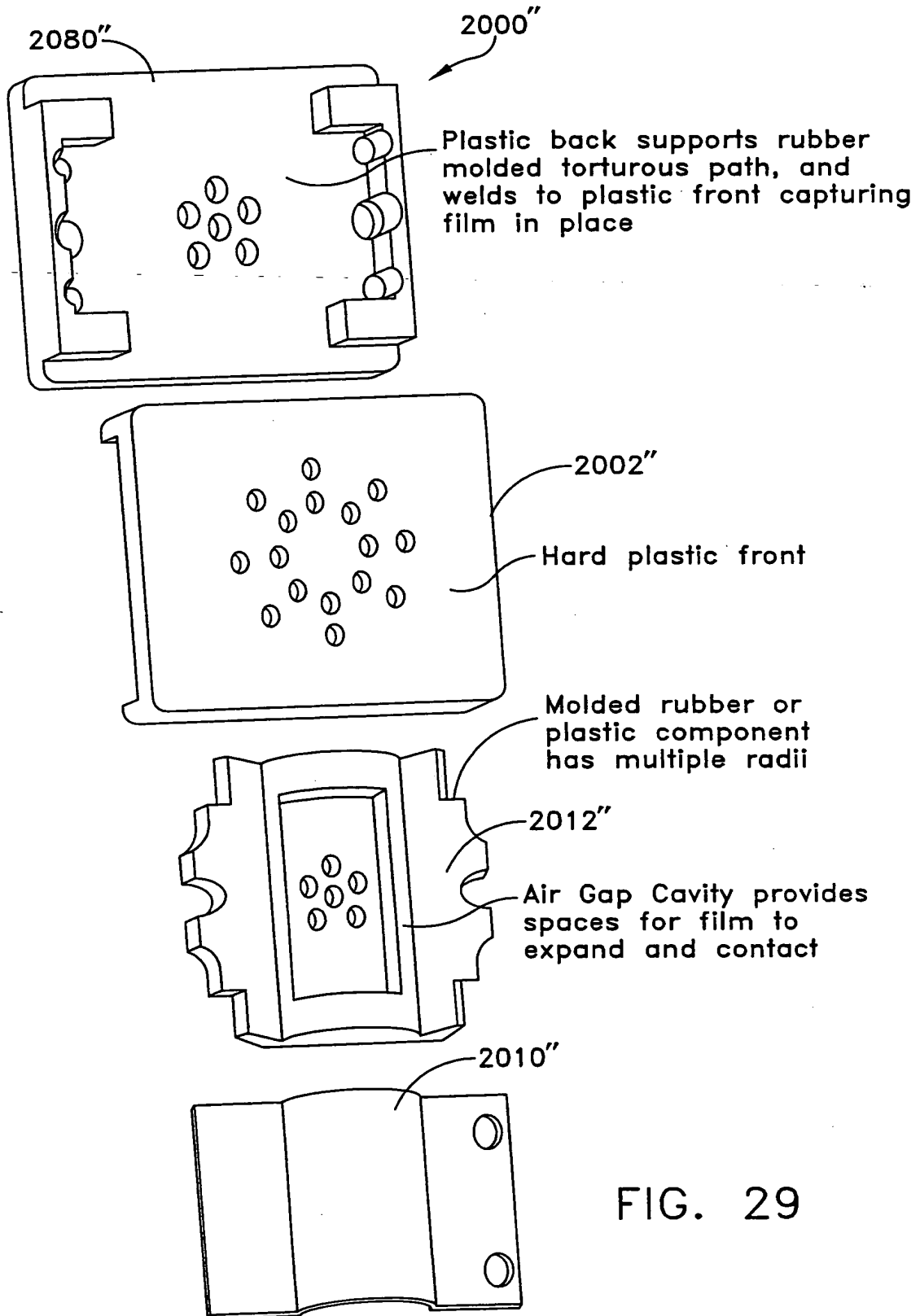


FIG. 28



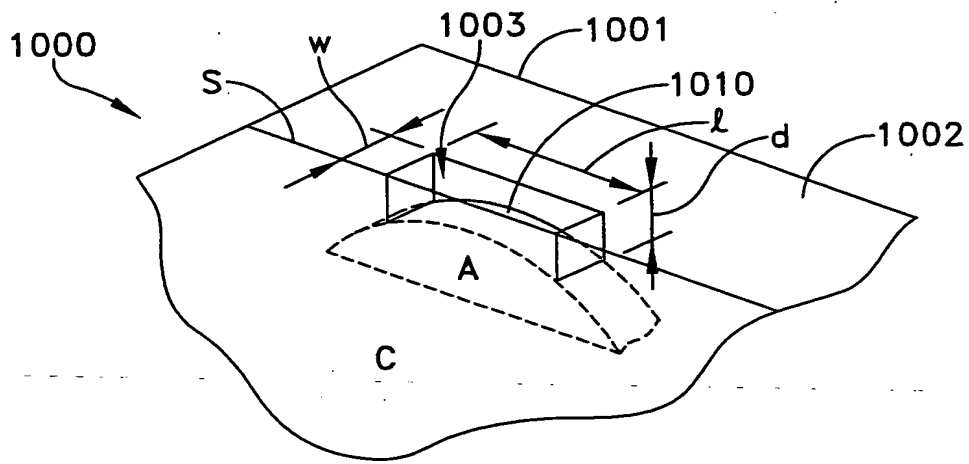


FIG. 30A

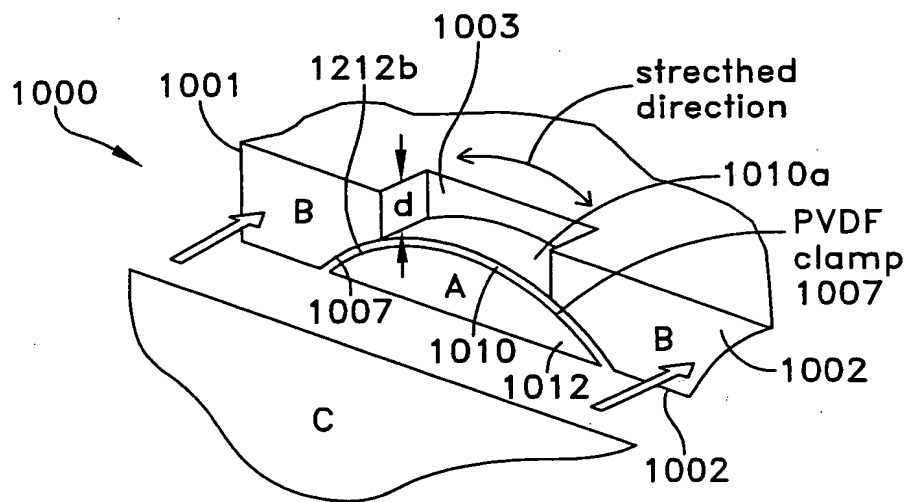


FIG. 31

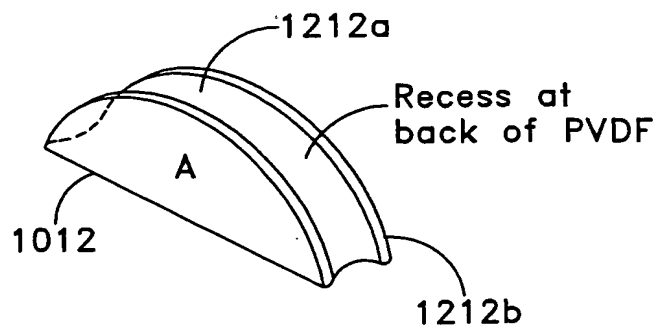


FIG. 32

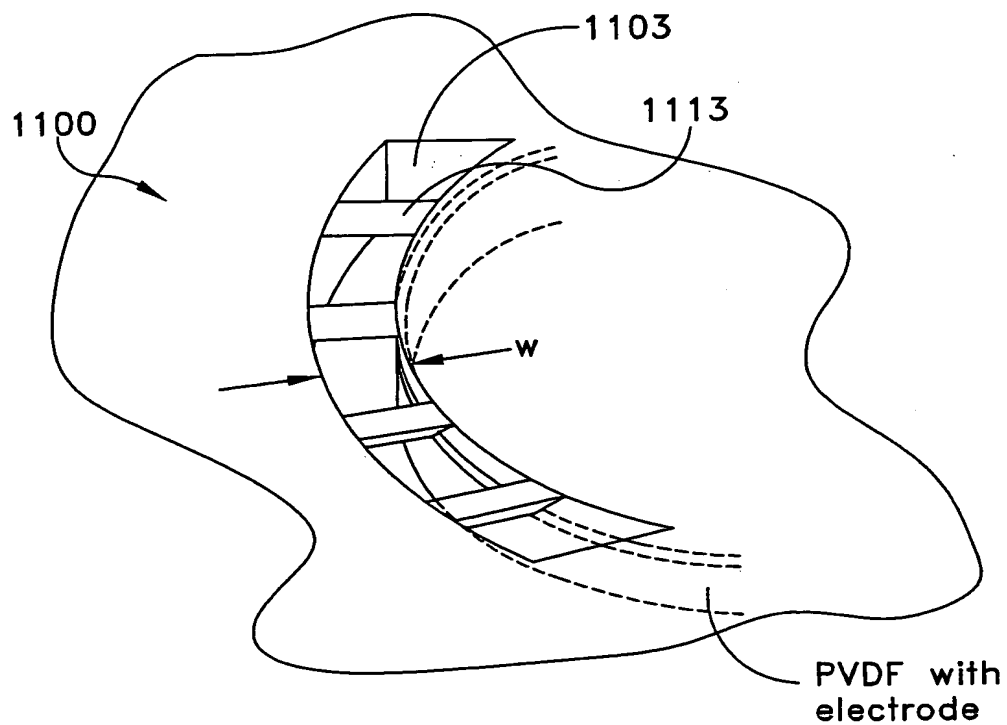
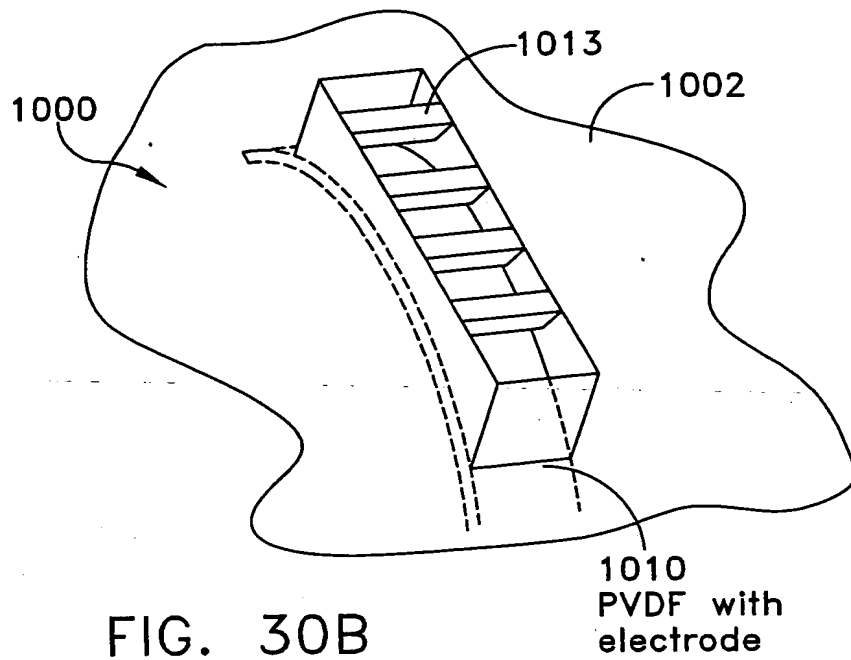


FIG. 33B

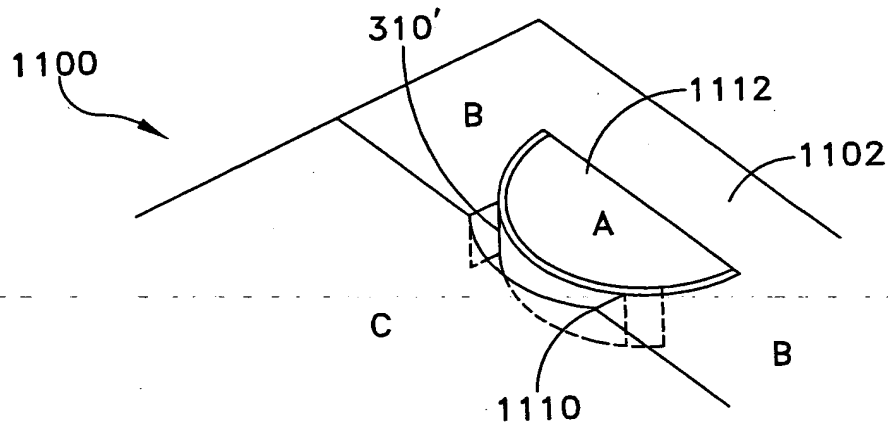


FIG. 33A

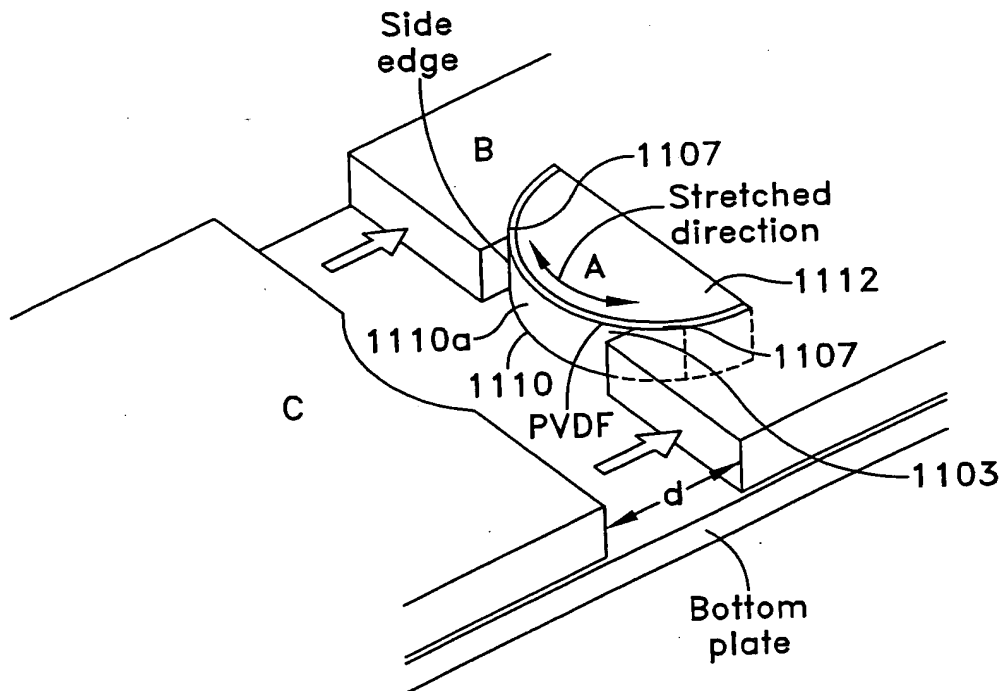


FIG. 34

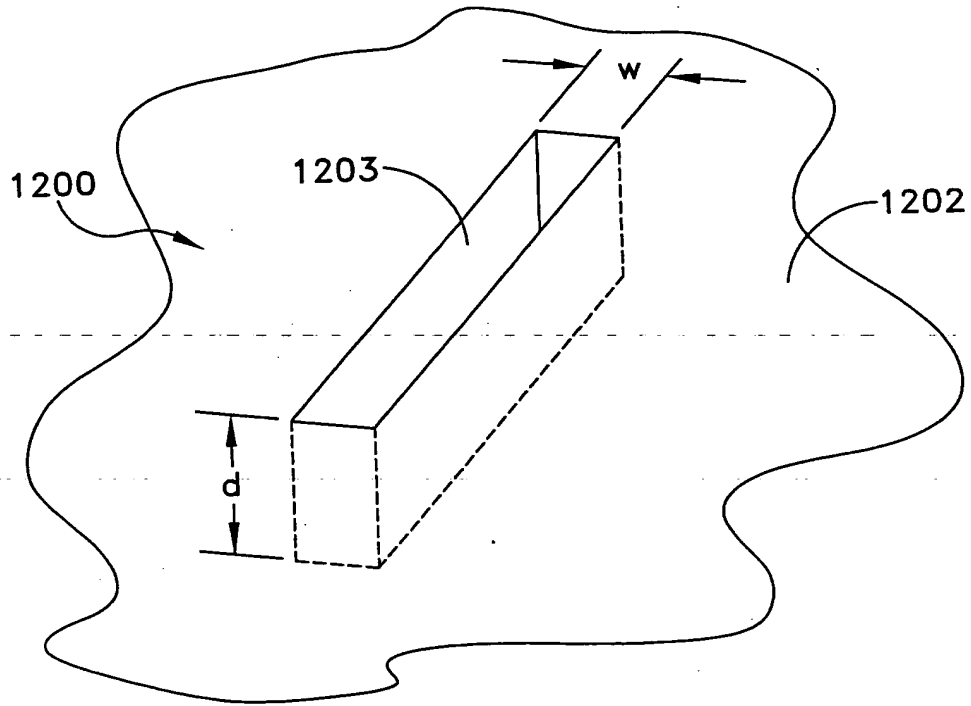


FIG. 35A

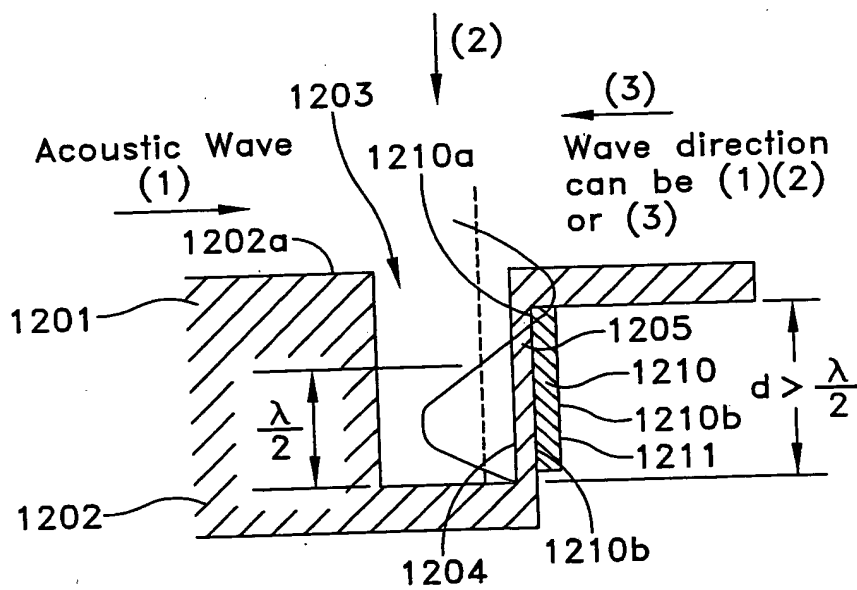


FIG. 35B

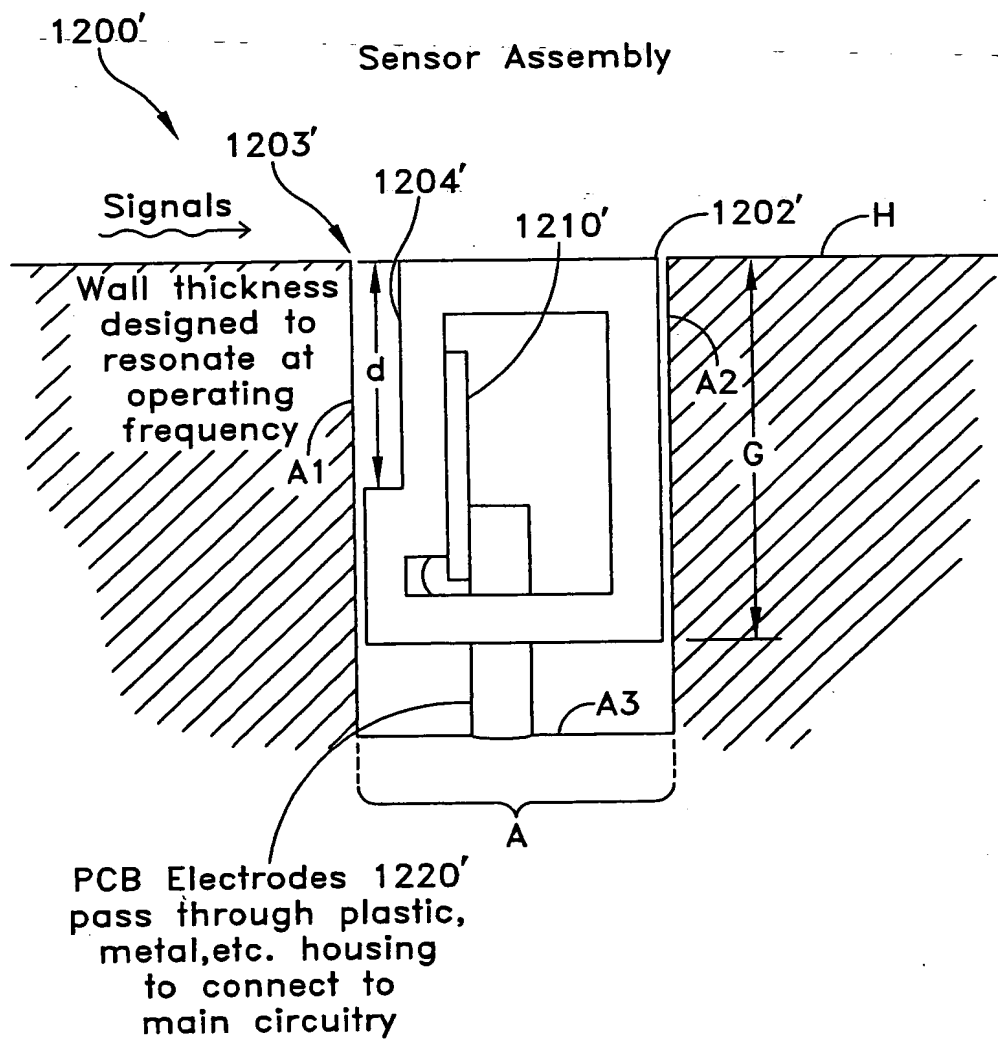


FIG. 35C

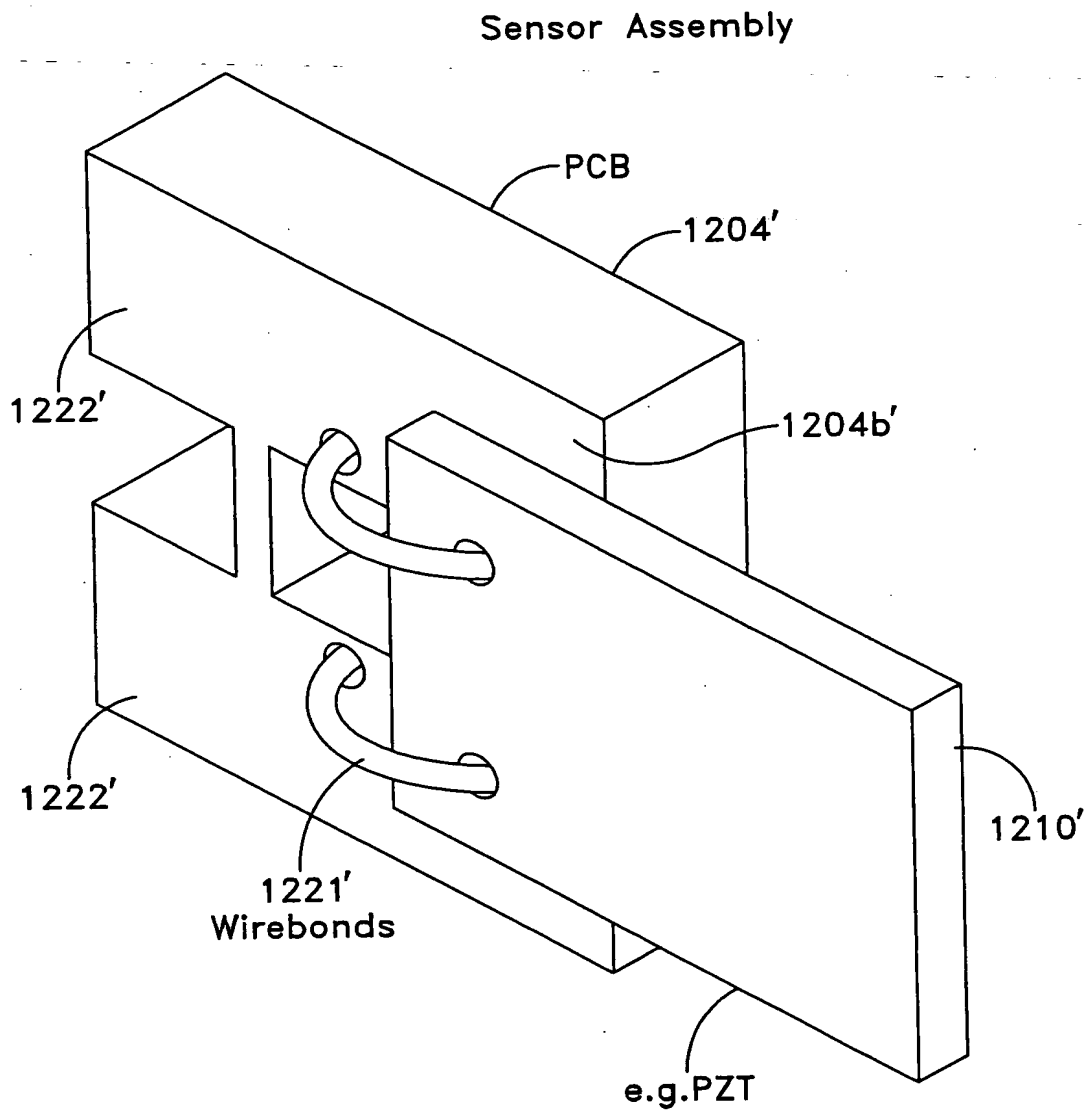
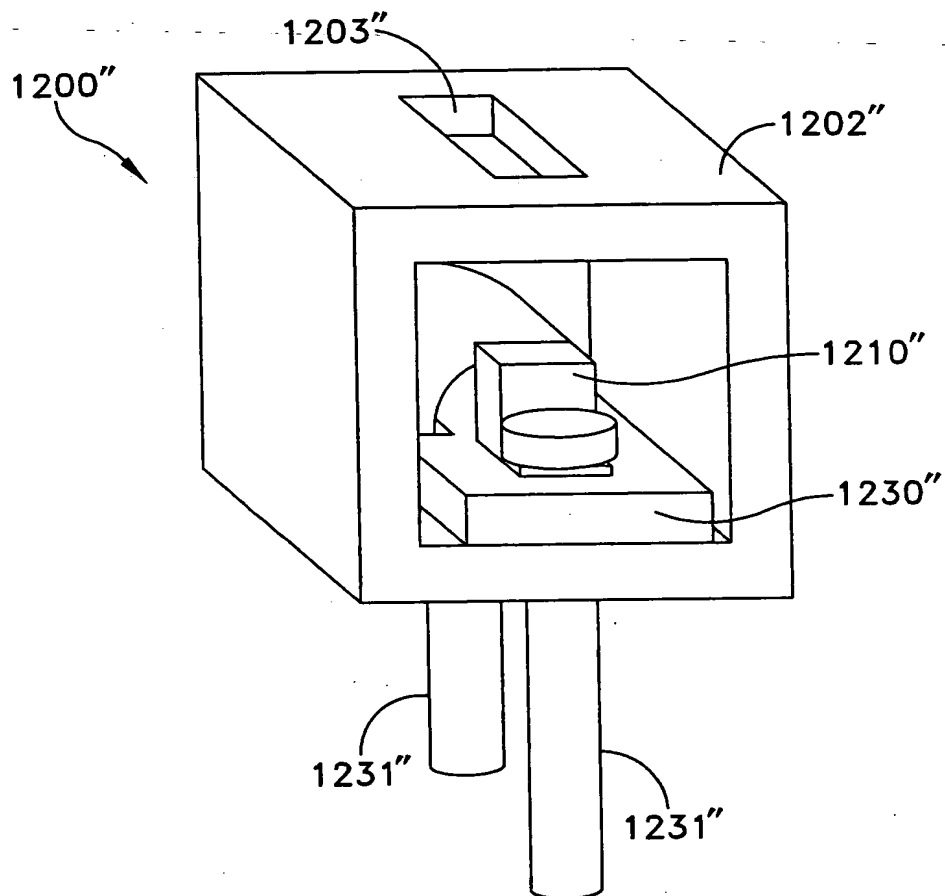


FIG. 35D

Semi-Cylindrical Sensor

Plastic Housing w/Cutout for
Accoustic Energy to pass



Electric Contacts pass through
housing to connect to main circuit

FIG. 35E

Semi Cylindrical Sensor

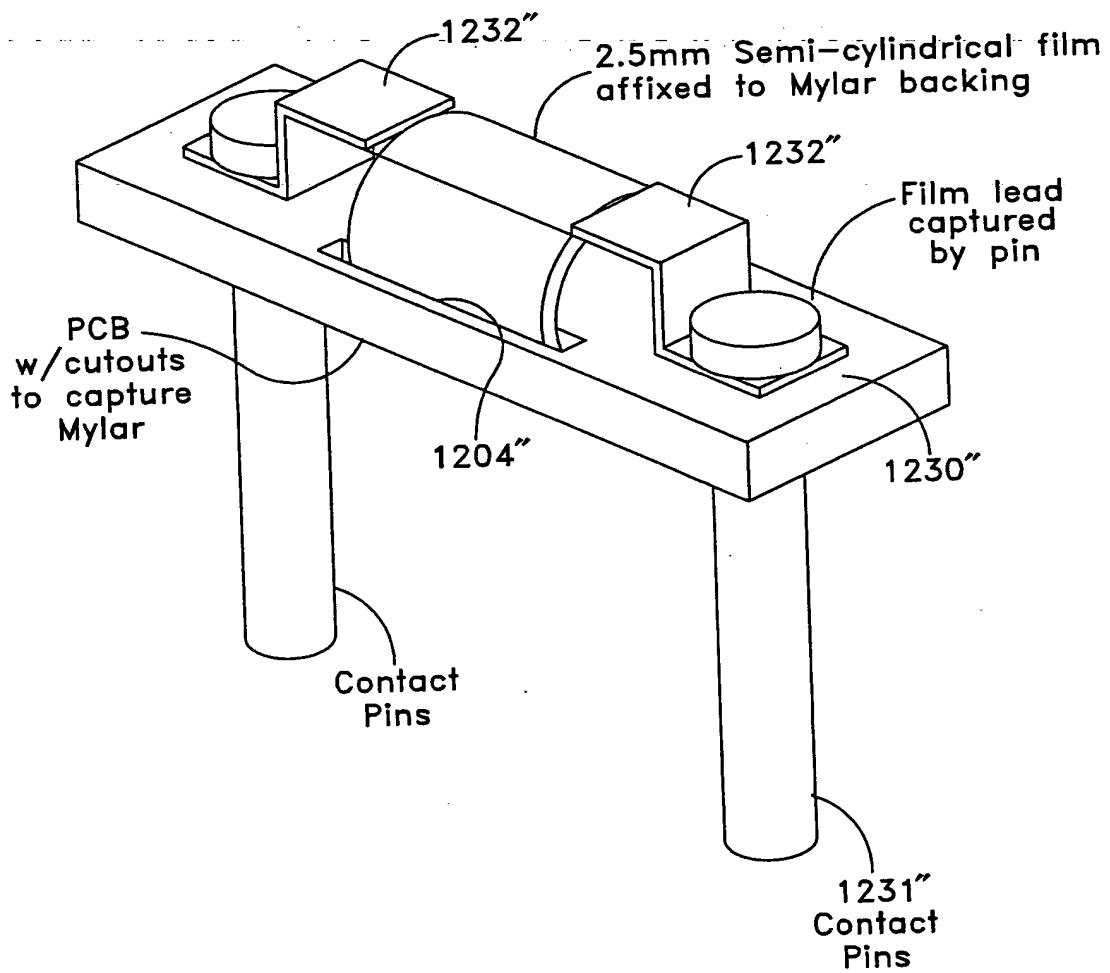


FIG. 35F

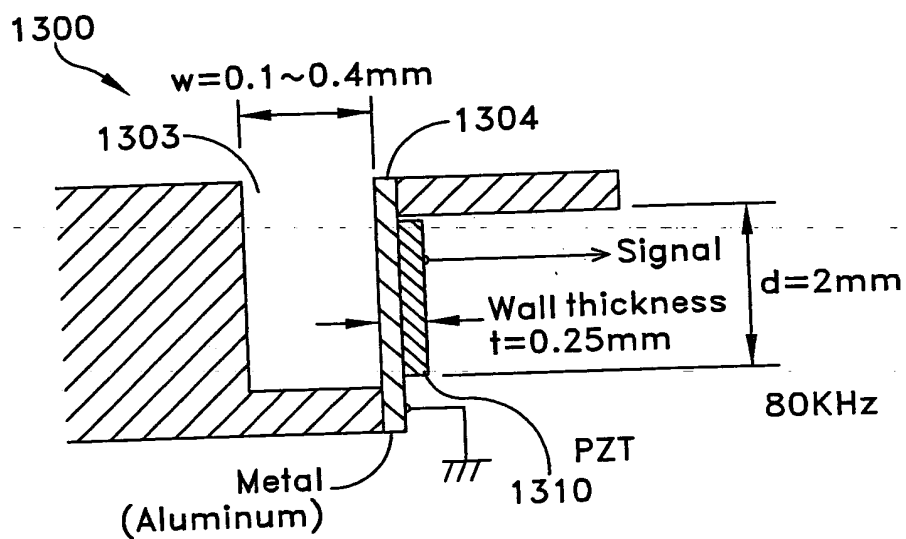


FIG. 36

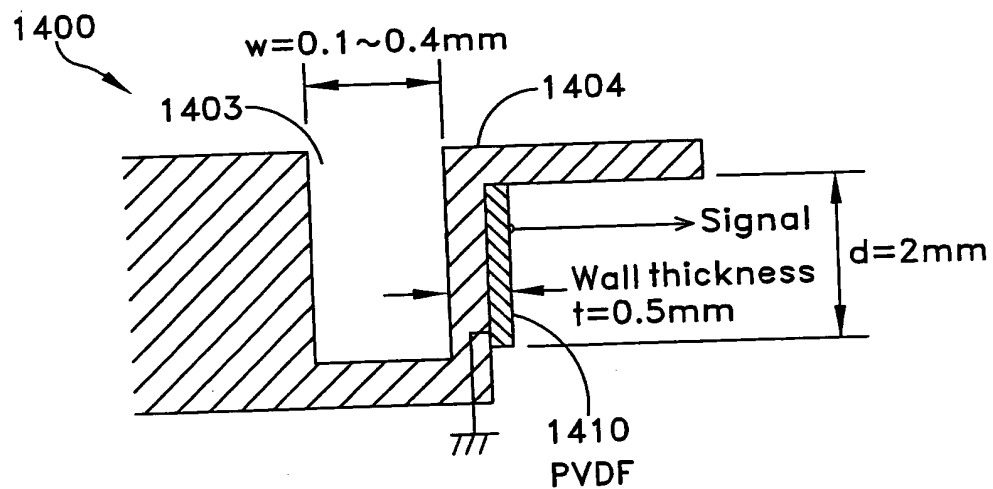


FIG. 37

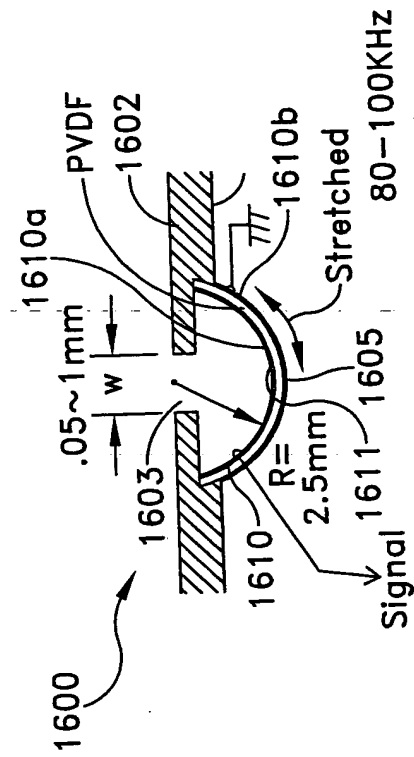


FIG. 38A

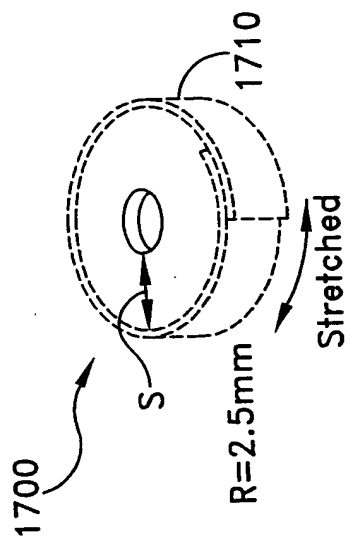


FIG. 39A

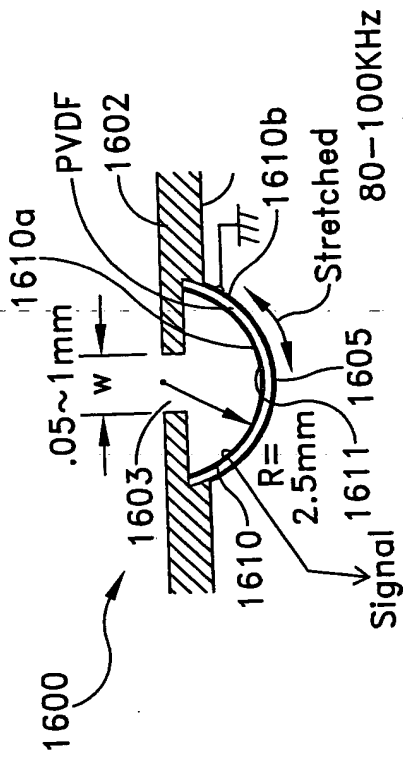


FIG. 38B

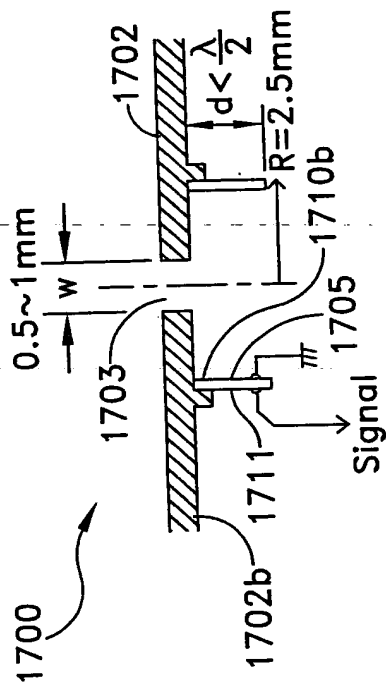


FIG. 39B

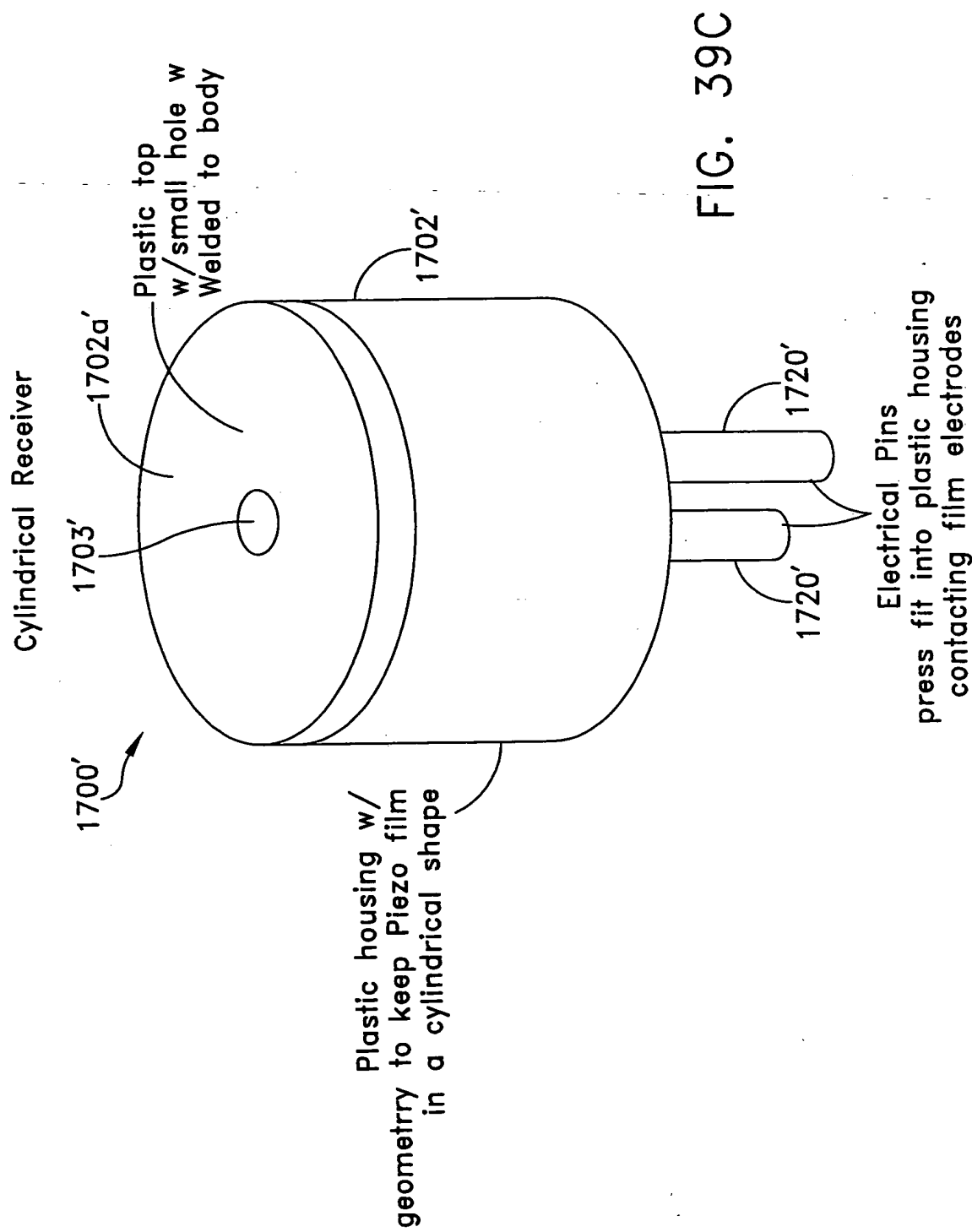


FIG. 39C

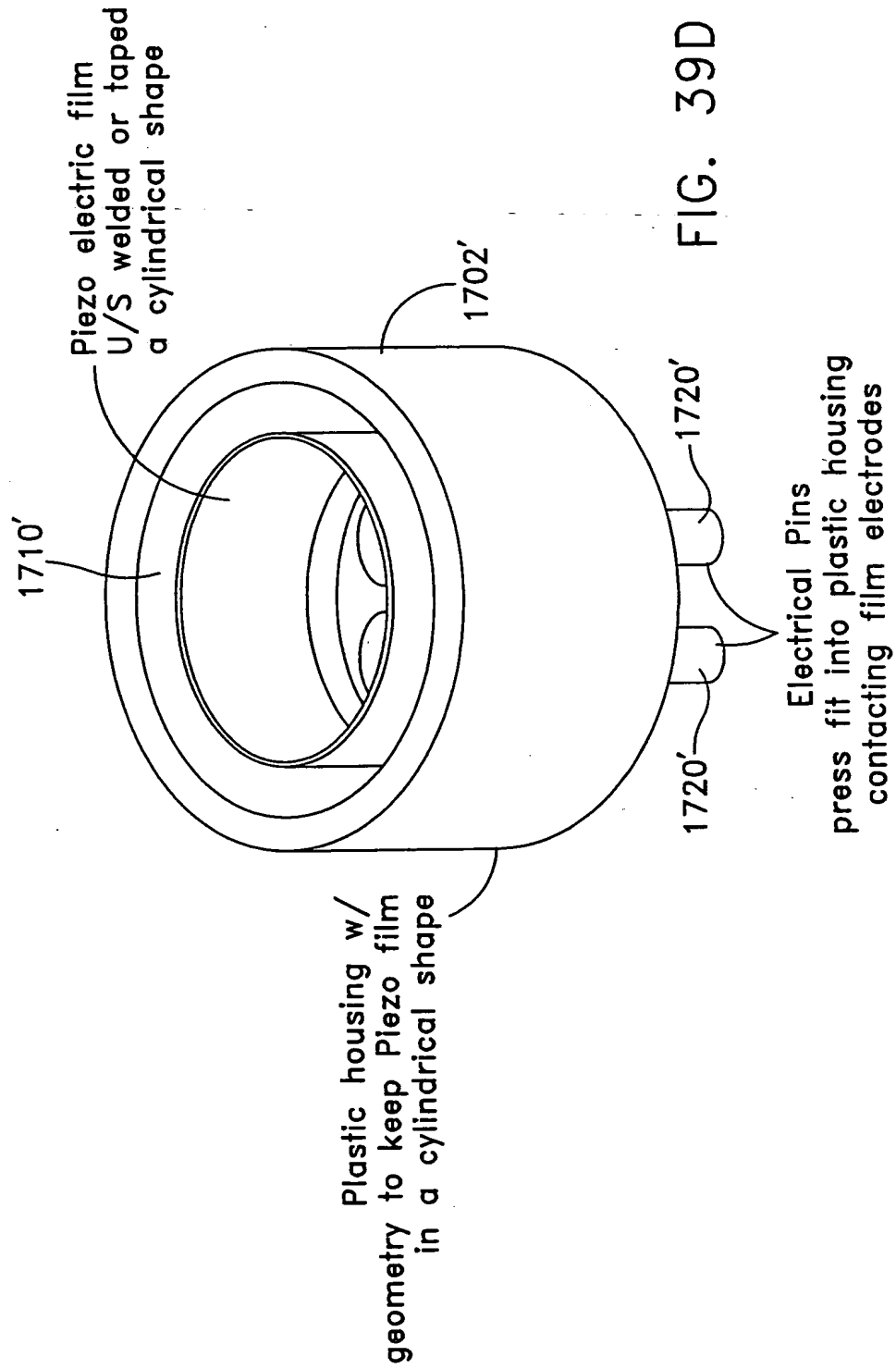
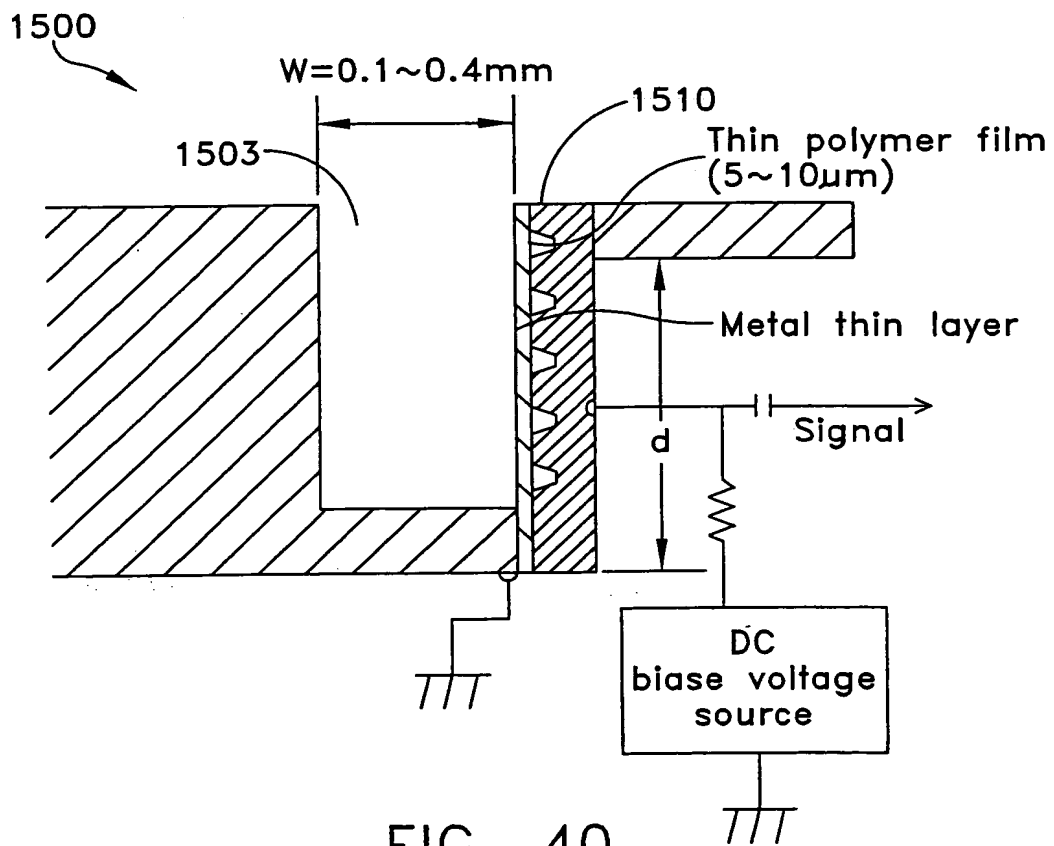


FIG. 39D



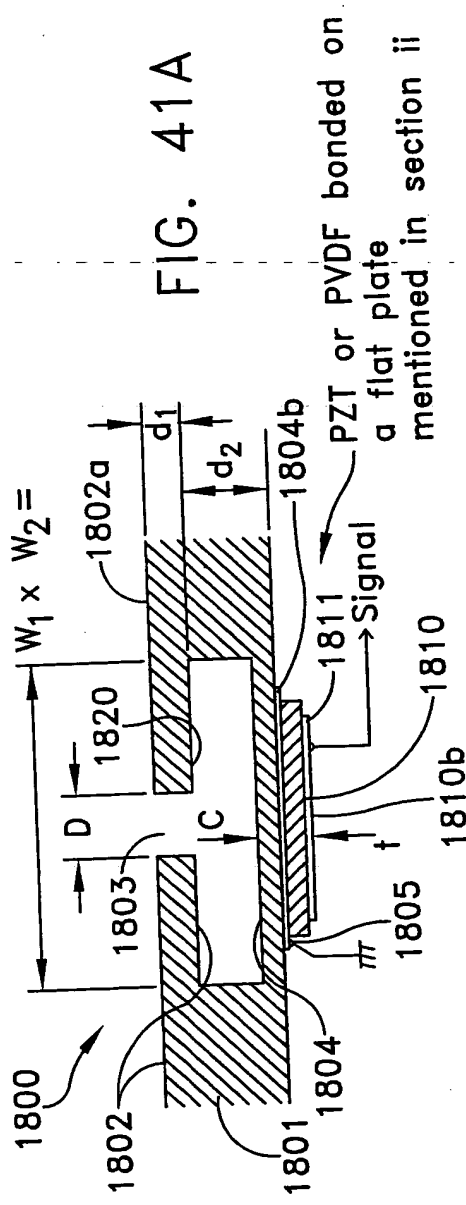


FIG. 41A

40KHx example:

D=1mm,	W1=2mm	W2=2mm,	or (b)	D=0.5mm	
mm	mm	mm		mm	
d1=0.3	d2=0.52	d1=0.3	d2=0.18		
0.5	0.35	0.5	0.12		
0.75	0.24	0.75	0.09		
1.0	0.17	1.0	0.05		
1.5	0.05	1.5	0.02		

FIG. 41B

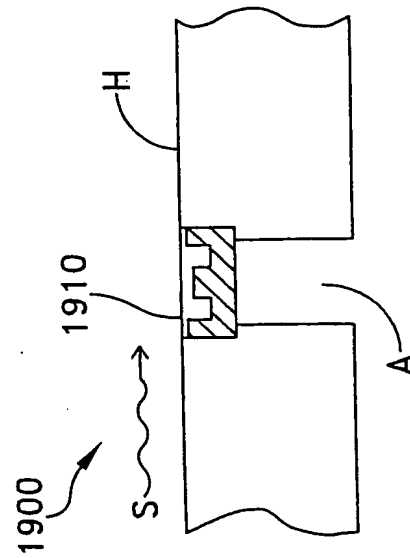


FIG. 42

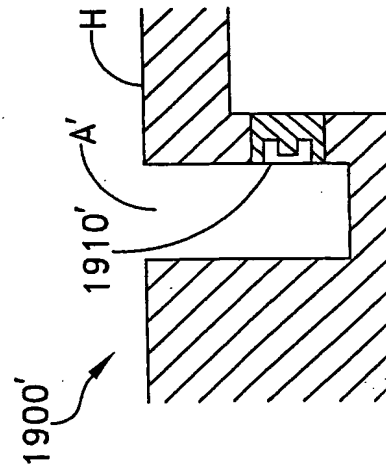


FIG. 43A

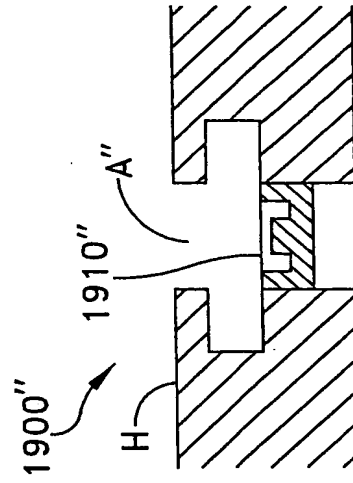
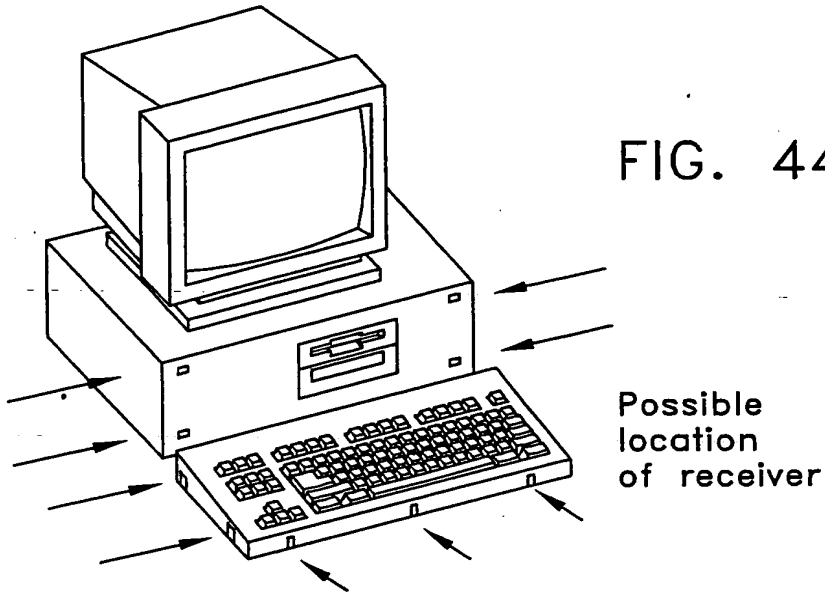


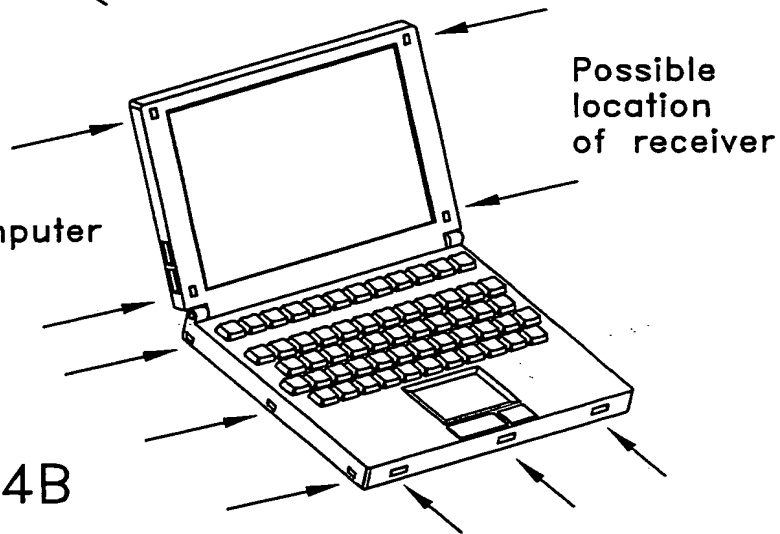
FIG. 43B

Desktop computer,



Laptop computer

FIG. 44B



PDA

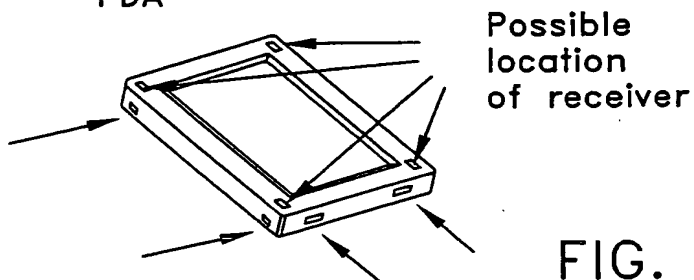


FIG. 44C

